

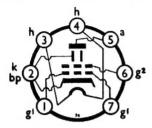
# OUTPUT BEAM TETRODE 6:3V INDIRECTLY HEATED

# N727/6AQ5

NOVEMBER, 1954

The N727/6AQ5 is a commercial equivalent of CV1862.

#### BASE CONNECTIONS AND VALVE DIMENSIONS



View from underside of base.

Base: B7G

Bulb: Tubular

Overall length: 70.5 max. Seated length: 63.5 max. mm.

Seated length: 63.5 max.

Diameter 19 max.

x. mm.

HEATER

 $V_h \\ I_h$ 

17.

6·3 0·45

V

MAXIMUM RATINGS (design centre)

Pentode connection

v a	
$V_{g2}$	
84	
Vh-k	
Pa	
D-0	
$p_{g2}$	

V V W W

Triode connection

 $V_{a+g2}$   $P_{a+g2}$ 

250 14 W

CHARACTERISTICS

Pentode connection

e connection		
$V_a$	180	
$ m V_{g2}$	180	
$V_{g1}$	-8.5	
Ia	29	
$I_{g2}$	3	
gm	3.7	
ra	58	
$\mu$ (g1-g2)	10	

250
250
<b> 12·5</b>
45
4.5
4.1

52

V V MA mA mA/V kΩ

Triode connection

$V_{a+g2}$	
$V_{g1}$	
$I_{a+g2}$	
gm	
ra	
II.	

V V mA mA/V kΩ

### N727/6AQ5

#### CAPACITANCES (of cold valve)

cin 8.3 pF

cout 8.2 pF

ca-g1 0.35 pF

#### TYPICAL OPERATION

#### Pentode connection

Single valve Class A

$V_a$	180	<b>25</b> 0	$\mathbf{v}$
$V_{g2}$	180	250	$\mathbf{v}$
$V_{g1}$	-8.5	-12.5	V
$V_{g1}$ $I_a$	29	45	mA
$I_{g2}$	3	4.5	mA
vin (pk)	8.5	12.5	V
Rk	270	240	Ω
Rk RL	5.5	5	kΩ
Pout	2	4.5	W
D	8	8	%

#### Push-pull. Class AB1. Two valves.

Data per pair unless otherwise stated.

	No signal	Max signal	
$V_a$	250	250	v
$V_{g2}$	250	250	v
$V_{g1}$	-15		v
$I_a$	70	79	mA
$I_{g2}$	5	13	mA
$v_{in}(pk)(g_{1-g1})$		30	$\mathbf{v}$
Rk (per valve)	390	_	Ω
$R_L$ (a-a)	10	10	$\mathbf{k}\Omega$
Pout	_	10	$\mathbf{W}$
D		5	%

#### GENERAL

The maximum permissible D.C. grid resistance between control grid and cathode is limited to  $0.5~M\Omega$  for auto-bias and  $0.1~M\Omega$  for fixed bias applications.

#### MOUNTING

Any position.

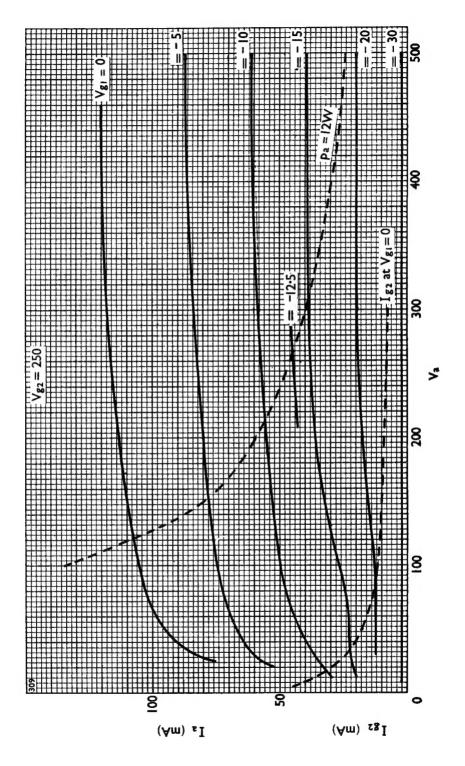
#### RETAINING

It is recommended that a retaining device is used.

#### VENTILATION

Free air circulation around the bulb is preferable. The temperature of the hottest part of the bulb must not exceed 250°C.

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